Execute displayed command	Display next higher numbered command	Display next lower numbered command	COMMAND
ξŷ	121	D	APPLE SHIP I (Violet)
*	\ \	1	APPLE II & If+ SHIP 1 SHIP 2 (Violet) (Green)
S	দ	D	APPLE HC SHIP I SHIP (Violei) (Gree
L	,	**	PLE HC SHIP 2 (Green)
S	μı	D	SHIP 1 (Dark)
٠.	+	t	CARI SHIP 2 (Light)

Boarding Phase Commands

Enemy on own deck	Other snipers	SNIPER AIM AND FIRE AT:	Hack	Thrust	Counter-thrust	Move left	Move right	SWORDFIGHTER MOVEMENTS:	COMMAND
ω h	در و		w	2	-	0	73.		APPLE SHIP 1 (Violet)
1.	. 0		1		0	^ 1	\ \ -		APPLE II & II+ SHIP 1 SHIP 2 (Violet) (Green)
(a) N	J →		w	12		Ü	73		APPLE IIe SHIP 1 SHIP 2 (Violet) (Green)
11	0		1	1	0	79.4	~		LE IIC SHIP 2 (Green)
W N	J 1		تيا	ы	_	D	ш		ATARI SHIP I SH (Dark) (U
0	0 00		0	9	QD.	t	ŧ		ARI SHIP 2 (Light)

SPECIAL NOTES: BROADSIDES" is compatible with the Mockingboard" in slot #4.

Certain hardware items (such as a Z-80 card) placed in slot #4 will prevent
the BROADSIDES game from functioning properly. If your disk will not run
and you have a card in slot #4, remove the card and the game will load correctly.



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combat betweeen sailing ships of the Napoleonic era (late 18th and early simulation of ship-to-ship Broadsides is a tactical

engage in close combat using swords by a human opponent. To be victorious and muskets. attempt to board the other ship and bon for your cannons, or you may ship commanded by the computer or helm of the sailing ship of your choice, you may use various types of ammuniyou will match yourself against another 19th century). Taking the

1.1 LOADING THE PROGRAM

tridges on the Atari). turn your computer on fremove all car-Put the disk in your disk drive and

STOPPING THE GAME AND RESTARTING TEMPORABILY THE GAME

the 'R' key) to restart the game. Hit the escape key again to resume play Hit ctrl-R (hold the control key and hit porarily slop the game while playing. Hit the escape key (ESC) to tem-

1.3 SOUND ON AND SOUND OFF

the sound on or off by typing ctrl-S. During a game players may turn

1.4 ARCADE VS. TACTICAL LEVELS OF PLAY

ful game with more options should make. Those preferring a more thought exciting action, with fewer decisions to can be played using the Broadsides disk The 'arcade' type of game offers last and two very different types of games

> computer receiving a new ship (Iliis choose the 'tactical' type of game. If you do double damage against the enemy. ammunition, and your guns will always arcade game, only solid shot is used for page after the game is loaded. In the tactical is made on the first selection a new game. The choice of arcade vs. or you can accept your victory and start option not available in the Atari version), choose to continue the game with the the computer and you win, you can are playing the 'arcade' game against

1.5 TALKING TO THE COMPUTER WHILE

and (16) TURN TO STRB. (Fewer comrange), (15) FIRE XXXX YARUS (high range), the message "AYE, AYE, SIR" on the the computer will respond by flashing game.) When a command is accepted mands are available for the arcade (low range), (14) FIRE XXXX YARDS (mid SAIL, (8) SOLID SHOT, (9) CRAIN SHOT, SPEED, (3) STEADY SPEED, (4) SLOWER SPEED, Commands are displayed in the following order: (1) TURN TO PORT, (2) FASTER ship on the right third of the screen. appears directly below the name of the (12) AIM AT HULL, (13) FIRE XXXX YAROS (10) GRAPE SHOT, (11) AIM AT SAILS. (5) BACK SAIL, (6) BATTLE SAIL, (7) FULL The command line for each ship

USING THE PADDLES (Apple ersion only)

right third of the screen. On the left ship, which is displayed on the boltom Paddle number 2 refers to the green two-thirds of the screen, the ships are ship, on the top right third of the screen. Paddle number 1 refers to the violet

> and then pressing the paddle button. command (TURN TO STRB) is displayed displayed when the paddle is turned all distinguished by their colors, green and first displaying it on the command line to the right. A command is executed by when the paddle is turned all the way the way to the left, and the last The first command (TURN TO PORT) is the paddle to the right or to the left. played on the command line by turning violet. Different commands are dis-

continue to ask you to set the paddles too much in error, the program will not calibrated exactly. If the paddles are paddies to allow for paddles that are The program will have you 'set' the

USING THE JOYPORT (Apple version only)

This game can be played using the

the displayed command. command. Press the button to execute the right to display a higher numbered display a lower numbered command (see section 1.4). Push the joystick to USING THE JOYSTICK

(Atari version only)

and ship 2 is light. Different commands then pressing the joystick button displaying it on the command line and the left. A command is executed by firs turning the joystick to the right or to are displayed on the command line by shades, dark and light. Ship 1 is dark are distinguished by their respective light ship, which is displayed on the screen, Joystick number 2 refers to the dark ship, on the top right third of the left two-thirds of the screen, the ships boltom right third of the screen. On the Joystick number 1 refers to the

USING THE KEYBOARD

Joystick. Push the joystick to the left to Sirius Joyport together with an Alan

1.6 TALKING TO THE COMPUTER WHILE BOARDING

give commands during the boarding Only the keyboard can be used to

phase. A summary of the commands follows:

COMMAND	APPLE SHIP 1 (Videt)	APPLE II & III+ SHIP 1 SHIP 2 (Violet) (Green)	APP SHIP 1 (Violet)	APPLE IIC HIP 1 SHIP 2 Violet) (Green)	ATARI SHIP 1 SE (Dark) (L	ARI SHIP 2 (Light)
SWORDFIGHTER MOVEMENTS:						
Move right	স	\ \ \	71	4	भा	ŧ
Move left	D	Ŷ	D	٠.	D	ŧ
Counter-thrust		0		0	ped	00
Thrust	2	• •	ы	1	ы	9
Hack	w	ı	ω	1	w	Ö
SNIPER AIM AND FIRE AT:						
Other snipers		0	<u></u>	0	juni	02
Enemy on other deck	2	+4	2	1	N	9
Enemy on own deck	w	ı	Ç	Ü	ضا	0

1.7 DESCRIPTION OF ACTION

1.8 SETTING THE PACE

command. (A certain amount of time is estimate when your ship will turn or load 6 PM if neither player has achieved a reality. The game starts at 6:00:00 AM. adjusted on the variables pages.) turn command. This time delay can be needed to carry out a load command or a its cannons after you have given the victory by that time. Use the clock to The game automatically ends in a draw at you will notice that time moves faster than of the screen. Since this is a simulation, Game time is displayed at the bottom

engage and return to the sailing screen. after the last one is cut, the ships will disexplanation.) You will then see the grapmust be positioned behind the grating on screen, your sword-fighting character from boarding, and resume on the salling switch to the boarding screen. To disengage screen, and if the ships collide, play will and both players can issue commands at start playing. The play is not turn-oriented. Atari) is hit to start the game, be ready to soon as the space bar (START key on the ples between the ships being cut. Shortly his ship. (See boarding screen picture and the same time. Play starts on the sailing The play of the game is real-time. As

Players may adjust the speed of the

during a game as a valid tactic (if both again to restart the game, Players may setting). On the Atari, hit the ESCAPE key game by first typing ctrl-Q (ESCAPE on the with low numbers (0, 1, 2) representing players agree). wish to use the ability to change the pace level (0-9, or space bar to keep the current Atari) and then entering the new pace may change the pace setting during a become familiar with the game. Players progress to faster paced games as you think about your plan of action) and games (this will allow you more time to are advised to begin with slow paced representing the slowest paces. Players the fastest paces and high numbers (7, 8, 9) each game. Enter a value between 0 and 9. pace of the game just prior to the start of game. The computer will ask you to set the

1.9 CHANGING MODES

and ctrl-] will activate the joystick (Atarionly) ctrl-P will activate the joyport (Apple only) will activate the paddles (Apple only), shiftctrl-K key will activate the keyboard, ctrl-P between their paddles, joyport, and keyboard while a game is in progress. The Players may switch back and forth





bles pages are optional to play. The three variaof game you would like to select the general type The options page is used

able if you select the change variables in the game (these three pages are availthe characteristics of the ships you use and allow you to control

option). Examples of controllable varia-

for guns bles are ship crew size and loading time

2.1 THE OPTIONS PAGE

player options (ships to be used), and screen only, (5) difficulty of game and game, (4) regular game or boarding players, (3) arcade or tactical type of (I) game controller, (2) number of There are six groups of options:

> when you hit the space bar.* the first variables page (see below) select CHANGE WARIABLES, you will go to you hit the space bar.*Otherwise, if you for option 6, the game will start when the space bar. If you select NO CHANGE will remain on this page until you hit Options can be chosen in any order. You cating which option is currently selected appear next to each option group indithe screen is displayed, a cursor will (6) selection of the variables pages. As

- 1. Hitting the 'I' number key selects mended for the Apple version, the KEYBOARD. The paddles are recomjoystick for the Atari version, game controller PAUDLES, JUYPORT or
- 2. The number '2' key selects \$01\TAIRE ER (you play another person). (you play the computer) or TWO PLAY-
- Hitting the number '3' key selects games. (See section 1.3 above for an the ARCADE or TACTICAL types of types of games.) explanation of arcade and tactical
- 4. The '4' number key selects a regular sailing game, or a game with the boarding screen only.
- 5. Hitting the number '5' key selects ship is superior to that of the player whereas in Level 3 the computer's tion of the abilities of the two ships able are player options A through L the difficulty of the game. Also availship is inferior to that of the player, (i.e. in Level I play the computer's it previously saved (see section 2.5). The level of play is merely a reflec-
- 6. The '6' number key gives you the the space bar.* Otherwise, the game the change variables option. will start after you hit the space bar." bles page (see below) after you hit option to CHANGE VARIABLES. If you for the current game's ships, select select it, you will see the first varia-If you want to see the initial settings
- After you have selected all of your you selected CHANGE VARIABLES in options, hitting the space bar * starts the game, or goes to the first varia-

2.2 VARIABLES PAGES (SHIP CHARACTERISTICS)

options page. If level I was chosen, the the values for that player option (players variables values will initially be set to If a player option was chosen, the display initially on the variables pages. ship characteristics for level 1 play will by the level of play chosen on the played on the variables pages are set through L. The original settings disfrom the standard settings for Level 1, will have the ability to save onto the Level 2, Level 3, or Player Options A change the settings for the ship variables The variables pages enable you to

hit the space bar to start the game. When the variables pages are completed another (there are 3 pages altogether). Atari) to go from one variables page to Use the escape key (option key on the

disk new player options A through L).

2.3 VARIABLES PAGE |

calculate a typical ship according to the cannon selections that you have made. the end). If you want, the computer can types of cannons on that ship. You will your ship and to select the numbers and (this only affects the music played at also select the nationality of the ship Variables page 1 is used to name

- 1. To name ship 1, hit the '1' key, type the name of the ship, and hit return
- 2. Hitting the '2' number key moves Up to four types of guns are allowed choices for ship 1. The cursor shows the '2' key to go to the second choice. type of guns for your first choice, hit which choice you are at now. After you have selected the number and you between the four different gun
- Hitting the '3' key allows you to number goes up to 22 and then back Hitting '3' adds I to the number to 0 (you see a blank on the screen, each time you hit the key. The change the number of guns for the line the cursor is on, for ship 1.
- gun is a carronade. If there is no 'C' gun will be shown, and a 'C' if the Hit the '4' key to choose the type of for ship 1. The poundage for each gun you would like for that choice,

* START key on the Atan

maximum range. type is displayed the maximum range 9 lb, 12 lb, 18 lb, 24 lb, 32 lb, 36 lb, carronade, 24 lb carronade, 32 lb the guns is: 12 lb carronade, 18 lb range. The accuracy of the guns is one third of the guns' maximum range of the guns is at ranges under of that type of gun. You will note that and 42 lb cannons. After each gun carronade, 42 lb carronade, 6 lb, 8 lb, very poor beyond one half of their than cannons. The most effective carronades have a much shorter range

You may hit the '5' key to calculate a calculating a typical ship will change choices for ship 1. Warning after you have made all the cannon typical ship for those cannon choices 'typical' settings! the next two variables pages to those all the variable settings for ship 1 on

6-0. The keys 6, 7, 8, 9, 0 have the same effects on ship 2 as the keys 1, 2, 3, 4, 5 have on ship 1.

2.4 VARIABLES PAGE 2

repeatedly will increase the variable to value for that variable. Hitting that key the keys 1 through 0 will increase the again at its minimum value. its maximum value, and then begin (9) and (0) hull points. Hitting one of (6) speed, (7) and (8) shot damage, and time, (3) and (4) turning time, (5) and the variables: (1) and (2) firing (loading) Variables page 2 is used to change

- 1. Hit '1' to change the firing (loading) maximum for firing time), it will start adds 10 seconds to the firing time time for ship 1. Hitting the '1' key over at 10 seconds (the minimum for When it reaches 8 minutes (the hing time).
- 2. Hit '2' to change the firing (loading) could reload their guns in one and time for ship 2. Firing time represents Historically, the very best crews from 10 seconds to 8 minutes. reloaded. Firing time can be adjusted again after the cannons have been have been fired. You can only fire ship to reload the cannons after they how long it takes the crew of your

among the crew. actual loading time will increase 10 play of the game, you will notice that seconds for every 30 casualties four minutes or more. During the one-half minutes; poor crews took

the gun is a cannon. The order of

- Hit '3' to change the turning time for
- Hit '4' to change the turning time for change of 30 degrees (12 turns to a ship 2. Turning time is the delay circle). Turning time can be varied command is given. One turn is a before a turn is executed after the from 10 seconds to 8 minutes.
- Hit '5' to change the starting speed for ship 1.
- Hit '6' to change the starting speed ship's speed can be varied from 1.2 30 degrees from directly behind it. the wind directly behind it. The ship ship. It is the speed of the ship with the Alari). This speed will be the cates the ship's speed in relation to for ship 2. The starting speed indiis somewhat faster when the wind is It is not the maximum speed of the speed of the ship as the game starts knots to 4.8 knots (.5 to 4.4 knots on in all directions to the wind. The starting speed, the faster that ship is that of other ships. The higher the
- Hit the '7' key to change the shot damage inflicted by ship 1 on ship 2
- Hit the '8' key to change the amount of damage inflicted by the cannons guns. When shot damage is set to of ship 2. Shot damage is a measure .5 times (50 percent of) to 3 times number of hits is increased to 24. would normally inflict 12 hits, the 2.00 × standard, then if a broadside example shot damage is sel to the range they are firing at. If for the number of cannons hang and of the number of hits inflicted by the Shot damage can be varied from inflicted is an accurate reflection of 1.00 X standard, the number of hits (300 percent of) standard.
- Hit the '9' key to change the hull points for ship 1.
- 9 Hit '0' to change the hull points for how sturdy the hull is. Your ship wil ship 2. Hull points are a measure of

points to 200 points. sink after your hull points reach zero.

Player Options A through L. variables on the three variables pages as through ctrl-L) to save the values of the centage, (3) and (4) crew size, (5) and change (1) and (2) sniper fire hit per-(6) boarding casualties, and (ctrl-A The third variables page is used to

- Hit the 'I' key to change the sniper fire hit percentage for ship 1.
- 2. Hit the '2' key to change the sniper the sniper fire to 15% or 30% to 8% of hits effective, 15%, 30% and or decrease the effect that snipers each sniper hits his intended target fire is the percentage chance that ships, an accurate percentage is 8% represent more snipers. For smaller 60%. To represent larger ships, set Sniper fire percentages can be set to have on the outcome of the game. This variable can be used to increase fire hit percentage for ship 2. Sniper

up to 4 times as many casualties as

multiplied by 1, 2, 3 or 4 to produce set to 3. Boarding casualties can be boarding casualties ratio for ship 1 is ship 2 crew members when the is set to 1, then ship 1 will kill 12 the boarding casualties ratio for ship 1

ing casualty ratio to 4, hitting the key

standard. After increasing the board-

- 3. Hit '3' to add 50 men to the size of point the crew size starts over again possible crew size is 1279. After that the crew for ship I. The maximum
- 4. Hit '4' to add 50 men to the size of of your crew is very important during the maximum is 1279 men. The size like. The minimum size is 120 men; until you reach the crew size you'd the crew for ship 2. Keep hitting '4'

Hull points can be varied from 30

2.5 VARIABLES PAGE 3

For example, if the crew of ship I

kills 4 ship 2 crew members when killed by the specified percentage. than I will raise the number of men method used to kill. A ratio greater

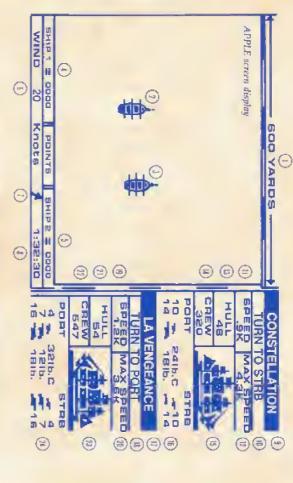
killed depending partly on the

- 5. Hit the '5' number key to change the the boarding phase. boarding casualties inflicted by ship 1
- Hit the '6' key to increase the boarding casualties inflicted by the crew of ship 2 on the crew of ship 1. fighter or by a sniper, that death when a man is killed by a sword values. On the boarding screen, modification of the standard casualty Boarding casualty ratio reflects a represents a certain number of men

CTRL-A through L: Hold down the saved by specifying Player Option A settings of the variables as Player through 'L' keys to save the current one more time sets it back to 1. recall all the variable values you have ously saved Player Option variables through cirl-L will erase any previ-Options A through L Hitting ctrl-A control (CTRL) key and hit the 'A' When playing another game later.







the items you will find on the sailing screen 1. Current scaled distance between The following is a description of all of arrows. There are three different

- 600 and 2400 are available. (The top scales in the game: 600, 1200, and they move farther apart to keep both ships on the screen as the scale changes.) The scale changes views of the ships change size when 2400 yards. On the Atari only the
- violet, Atari: dark) at the 600 yard Top view picture of ship I (Apple: various ranges determined randomly start on the right or left of ship 2 at scale. Ship 1 (violet or dark) may
- 3. Top view picture of ship 2 (Apple: green, Atari: light) at the 600 yard
- Current point value earned by the captain of ship 1. Points are earned tor damage to ship 2.
- Total points earned by the captain of ship 2 for damage to ship 1.
- Current speed of the wind in knots 25 knots. will always start with the wind at 10 knots to 30 knots. The game The wind speed will vary from
- 7. Current wind direction. The wind wind will tend most often to blow that the ships can move in. The changes the speaker will sound. up). When the wind direction 'up' the screen (the arrow will point can blow in the same 12 directions

ATARI screen display

8. Current time in the format than real time. time will move several times taster declared a draw. Note that game (6:00:00). If neither side has won and can continue until 6 P.M. The game starts at 6 A.M. (6:00:00 MM is minutes, and SS is seconds. HH:MM:5S, where HH is hours, by this time, the game will be

8 9 (3)

100

a (3)

TURN TO PORT

@3

2 % 68 # CA

Ŋ

4 00

(3)

1.8 K NX SPEEC

15 % 14# 25 1 14 #

TURN TO PORT

00

2 % 68 # Cr

1

4 10

(B)

14 1 24#

- Name of ship 1 (violet or dark).
- Command display line for ship 1. AYE, AYE, SIR to be displayed. In other the command on to the crew. stood your order and has passed words, your Lieutenant has undercommand will cause the message here one at a time. Executing a Each command can be displayed

81 = 0000

30 KNOTS T

6:01:40 38 = 0000

POINTS

-0600-

0

100 1

141

24 # 14# 144

1.8 K. MX.8

3

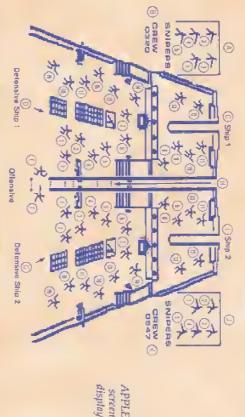
0

9

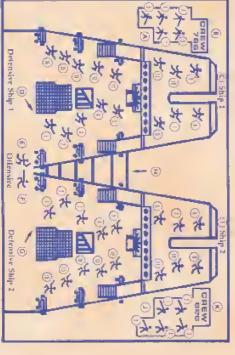
0

- 11. Current speed in knots for ship 1. H Current maximum speed in knots rently moving at It is affected by to battle or full sail. to increase or decrease speed or go direction, and commands you give sail damage, wind speed, wind This is the speed your ship is curfor ship 1. It is affected by sail
- unable to move. to zero and your ship will be When most of your sails are gone, in effect. The maximum speed will and whether battle sail or full sail is damage, wind speed, wind direction, your maximum speed will decrease decrease as your sails are shot out.
- Current hull points for ship 1. This your ship will sink. away. Soon after it reaches zero, will decrease as your hull is shot
- Current crew size (number of men) crew lost increases 10 seconds for every 30 time (loading time) for the cannons casualties in your crew occur. Firing for ship 1. This will decrease as
- Side view of ship 1. This picture tells what size of ship you are using. of hull is pictured depending on [13], hull points). A different type also shown on this picture (see also masts you have left. Hull damage is you how much sail and how many
- Cannon display for ship 1. This range fighting, 600 yards or less) carronade (primarily used for short shown. 'C' indicates the gun is a port and starboard. The type of gun shown for each side of the ship, ship 2. Number of guns left is will be hit by the broadsides from play the game some of your guns of guns currently functional. As you display shows the number and types
- 17. Name of ship 2 (green or light).
- Same as 10 but pertaining to ship 2
- Same as 11 but pertaining to ship 2.
- Same as 13 but pertaining to ship 2. Same as 12 but pertaining to ship 2.
- 24. Same as 16 but pertaining to ship 2. Same as 15 but pertaining to ship 2. Same as 14 but pertaining to ship 2





SCHEER



holdsip ATARI SCHOOL

is facing, (Crew members are shown on ship 2. Ship 2's crew will always face left whether currently on ship 1 or boarding Ship I's crew will always face right, the picture in the numbered positions.) member belongs to by the direction he You can tell which ship each crew

A Sniper box for ship 1. The figures in section 2.5, Variables Page 3). Each can be set on the variables page (see with muskets. Each sniper represents in the ngging firing at the enemy the sniper box represent snipers up 10 men. The accuracy of the snipers

> during sailing, or they can be killed by the other snipers during boarding can be killed when other crew is los ship starts with 5 snipers. Snipers

B. Current number of crew on ship 1. lose men from swordhighting or This number changes each time you

G. Grating on ship 2. If ship 2's sword-

are on the offensive

Swordfighting figure for ship 2. Note

that in this position, both swordfighters

- in the picture. (16 on the Atari) in order as shown Apple version only). There are 19 violet (the color of ship 1 in the left half of the screen. The mast is
- D. Grating on ship 1. If ship 1's sword if the enemy swordfighter drops offensively. When fighting offensively one of the grappling lines will be cu enemy that is currently on ship 1 ot 'dropping dead' in section 6.1) member currently stands. tion in which a live ship 2 crew ship 2 at the lowest numbered posidead, one of ship I's crew will board of the grating, then he is fighting ship I's swordfighter is to the right (will be erased from the screen). If will be removed from the ship, and left of the grating, then one of the while ship I's swordfighter is to the nghter drops dead (see explanation In other words, if ship 2's swordthe grating, he is fighting defensively fighter is to left of the right side of
- E. Swordfighting figure for ship 1. fighter by using the keyboard (see Commands are given to the sword-

- C. Ship 1. Ship I is displayed on the crew boarding positions on the ship

H. Grappling lines between the two ships

These can be cut by certain player

grating, then he is lighting oftensively

of the grating), he is fighting defensively

It ship 2's swordtighter is to the left of the lighter is to the right of G (the left side

actions (see section 6.1). When a grap-

- J. Sniper box for ship 2. crew boarding positions on the ship green (the color of ship 2 in the in the picture. (16 on the Atari) in order as shown Apple version only). There are 19 right half of the screen. The mast is

Ship 2. Ship 2 is displayed on the

crew losses sustained during boarding

be calculated taking into account the cut.) At this time new point totals will the ships apart after all the lines were men cutting the grappling lines pushed before but moved farther apart. (The return, both ships will be completely the sailing phase of the game. When you version. Otherwise, you will go back to lines are cut (erased) the game will end from the screen. If all the grappling pling line is cut, you will see it erased

stopped, facing the same direction as

in a draw if playing the Boarding Only

K. Current number of crew on ship 2. This number changes each time you lose men from swordlighting or sniper fire



at the bottom of the sailing area). The book refer to game time (see the clock All references to time in the rule

you can figure out when your ship will when you give a TURN or FIRE command game. By looking at the game clock time during the sailing portion of the clock is incremented 10 SECONDS at a

turn or when the guns will be reloaded. See the TUNN and FIRE commands for specific information about the time delays associated with those commands.

5.2 DISENGAGEMENT

ships additional time to repair. the ships being placed back within 1500 total (see section 7.0 for details on vicno new sails or masks will appear on speed if your sails were repaired, but hull was repaired, and an increased any damage that has been sustained. this time the ships will attempt to repair will elapse on the game clock. During Upon disengagement one hour of time each other the ships will disengage. proximately 1500-2000 yards away from to disengage several times in succession yards of each other. Ships may continue tory points). Next, play will resume with your ship. Repaired damage will be sub-Hull and sail damage may be repaired (determined randomly), allowing the You will see more hull points if your Whenever the two ships sail ap-

5.3 TURNING

of 30 degrees. The time delay between a ship of the period to complete a turn the options page giving a TURN command and the represent the actual time it would take accepted by the computer. There is a see a TUNNING message instead of the delay before the ship turns. During this player by selecting CHANGE VARIABLES on execution of the turn can be set by the delay before a turn is executed, to played neither TURN command will be TURN TO PORT OF TURN TO STRB YOU WILL delay if you attempt to display either command is given there will be a time place 30 degrees at a time. After a TURN TURN command. While TURNING is dis-Turning to port or starboard takes

5.4 SPEED

All speeds in game are expressed knots.

5.5 PORT AND STARBOARD

If you are facing toward the bow (front) of the ship, then Port is on your

left side and Starboard is on your right side.

5.6 BROADSIDES

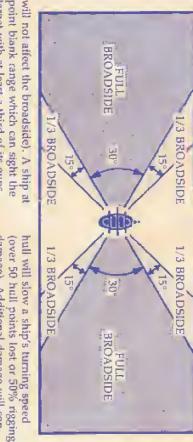
they were last aimed. It is possible then board side when you select AIM the broadside. If the ship is on your starcommand, whatever type of \$H0T you during SHOT, AIM, and FIRE commands enemy ship. This selection applies SHOT and to AIM one broadside at the according to your selection. The port starboard broadside will be aimed selected will be loaded into the port select which broadside is closer to the sails and AIM one broadside at the hull sides loaded with different types of to have the port and starboard broadbroadside would still be aimed where your port side when you select a \$801 always result from broadsides. solid shot, and double damage will command while the enemy ship is on SHOT until you give a different SHOT your port side then your port broadside broadside. For example, if you select give a different command for that broadside it remains in effect until you command is given for a particular are now firing from. Once a \$80T or AlM was on the side of your ship that you for SHOT and AIM when the enemy ship depends on the last commands given SHOT is fired and where it is aimed When you fire a broadside what type of For example, if the enemy ship is on your guns will always be loaded with your port side. In the arcade game, will continue to be loaded with CHAIN CHAIN SHOT while the other ship is on The computer will automatically

5.7 LINE OF SIGHT

A ship's broadside may only fire at full effect within a 30 degree arc as shown in the diagram at the top of the next page. A ship may fire a further 15 degrees on each side of the main arc, but at only 1/2 effect (see exception in section 5.8).

5.8 POINT BLANK FIRE

Fire at point blank range (defined as fire at 125 yards or less) causes double damage. A ship cannot miss when it is firing at point blank range (i.e. the range selected by the player



will not affect the broadside). A ship at point blank range which can sight the target with at least a third of its guns (see section 5.7) will automatically be able to have its full broadside sight the target. Also, point blank fire is automatically considered to be fire directed at the hull, even if AIM AT \$AIL\$ has been selected. Note that chain shot is extremely ineffective against the hull.

5.9 RAKES

A broadside which is judged to be raking an enemy ship will cause double damage. A rake occurs whenever the two ships are moving along perpendicular courses as shown below.

5.10 COMMANDS (Arcade and Tactical)

Each command below specifies what types of games (arcade and tactical) that command can be used in. Not all commands are available in the arcade game.

(Arcade and Tactical)

Ship turns to port after a delay of 10 seconds to 8 minutes of game time. For the Arcade version the delay is 50 seconds. For the Tactical version the standard delay can be set anywhere between 10 seconds and 8 minutes. See sections 5.3 and 2.4 for more information. Excessive damage to the rigging or

(over 50 hull points lost or 50% riggir damage). Additional damage will continue to slow a ship's turn rate.

(Arcade and Tactical)

Continues to increase speed until MAX SPEED is reached. Stays in effect until one of the other SPEED commands is given (STEADY SPEED or SLOWER SPEED)

(Arcade and Tactical)

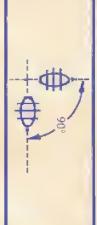
Cancels either of the other SPEED commands (FASTER SPEED or \$10WER SPEED) and continues the ship at its current speed.

SLOWER SPEED (Arcade and Tactical)

Continues to decrease speed until the speed is 0 knots. Stays in effect until one of the other SPEED commands is given (STEADY SPEED or FASTER SPEED).

BACK SAIL (Tacrical only)

Ship reduces current speed to ½ of its present value, 30 seconds after the command is given. During this 30 second interval, you may not give another back sail command. Backing sail was accomplished by temporarily turning sails into the wind. This command will not affect any of the other SPEED commands; for example, if FASTER SPEED is in effect





when you give the SACK SAIL command, it will still be in effect after the BACK SML command has been executed.

(Tactical only)

Standard rigging for ships entering battle. The game starts with both ships at 8ATTLE SAIL. This command also cancels the FULL SAIL command. There is a delay of 2 minutes 40 seconds before the FULL SAIL command is canceled and you are at BATTLE SAIL. The 'F' next to the maximum speed display is erased when BATTLE SAIL takes effect. See FULL SAIL command for more information.

(Tactical only)

a half to two times the damage you command is in effect. While at Fifth SAIL speed display when the FULL SAIL delay of 2 minutes 40 seconds. An 'F' is your ship will switch to BATTLE SAIL. effects apply only while the 'F' is disfaster speed and the greater damage would suffer at BATTLE SAIL. Both the the amount of damage will be one and MAX SPEED is doubled, allowing you to If you are at FULL SAIL when this occurs FULL SAIL for the remainder of the game. played. Once you have lost approximateyou suffer sail damage while at FULL SAIL sail faster if you so desire. Second, if there are two consequences. First, your placed to the right of the maximum ly a third of your sails, you cannot go to This command takes effect after a

SOLID SHOT (Tactical only)

Your standard cannonbat. This shot can be fired both at sails and hull. It does standard damage against both sails and hull. **SOLIO SHOT** is the only shot that can inflict hull damage (see **CHAIN SHOT** for one minor exception). It is also the most effective shot for destroying enemy guns. Solid shot is automatically loaded into each broadside at the beginning of the game, and during the arcade game.

(Tactical only)

This shot is for destroying sails (sail damage in this game represents

L

damage to both sails and rigging). Several types of shot were actually used to destroy sails and the term CHAIN SROT in this game represents all of them. This shot can only be fired at sails, CHAIN SHOT does two times as much damage against sails as SOLID SHOT does. Guns are destroyed less frequently when you aim at the sails. The maximum range of chain shot is roughly 700 yards.

(Tactical only)

This shot was used for killing crew. It can only be fired at the hull and only kills crew. This is by far the most effective shot against the crew (crew casualties can also cause casualties to your snipers). The maximum range of SHAPE SHIT is roughly 400 yards. If you are planning to board this is a good shot to use to prepare the way.

AIM AT SAILS (Arcade and Tactical)

Aims either port or starboard broadside at sails. This command will be ignored if **ERAPE SHOT** is currently loaded in the appropriate broadside (however, loading Grape Shot will not change the aim of your guns for future firings of solid shot). Aiming at sails is not as effective as aiming at hull for destroying the enemy's guns. This is the default target at the beginning of each game.

(Arcade and Tactical)

Aims either port or starboard broadside at hull. This command will be ignored if CHAIN SHOT is currently loaded in the appropriate broadside (however, loading Chain Shot will not change the aim of your guns for future firings of solid shot).

(Arcade and Tactical)

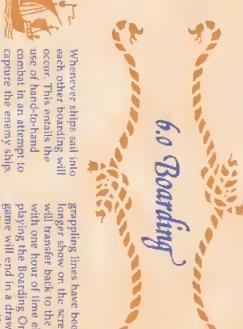
This command fires either a port or starboard broadside at the range XXXX (XXXX stands for whatever range is displayed for this command). Players have the option of either guessing the correct range or having the correct range automaticalty given. The option of guessing ranges gives you three ranges.

ship in the display area. See section 3.0 other while playing the game by hitting The Arcade game begins with the coreach 100 yards apart, one of which is damage. After firing there is a time correct range given to you, the computer rect range option and the Tactical game represent the time it look to reload the delay before you can fire again, to amount of damage done to the enemy will next calculate and display the you guess the correct range or have the ESCAPE, R, and then ESCAPE again? II begins with the guessing range option. fire automatically at the correct range. correct. The other option allows you to Loading time is increased due to crew range. While this message is displayed message will be displayed instead of before the delay is over, a STILL LOADING page. If you turn to the FIRE command ing CHANGE VARIABLES on the options delay can be set by the player by setect delay is 30 seconds in game time. The guns. In the Arcade version the slandard Sailing Screen for an explanation of You may switch from one option to the HHE command will not be accepted.

> ship. First, if you are playing the Tactical are three ways you can miss the other by 30 seconds if it loses 81 crew. There side will have its loading time increased loading time will be increased by 10 a number of crew equal to the number losses as follows: each time a ship loses which case there will be no splash. range of the type of shot you are using the game with 27 guns on each broadseconds. Example: A ship which starts of guns on its initial broadside its beyond the displayed playing area, in splash where the shot hit the water. broadside misses, then you will see a the line of sight of your guns. If your might be farther away than the maximum Second, the distance to the other ship version you can select the wrong range Sometimes the range you select is Third, the other ship might not be in

(Arcade and Tactical)

STRB is short for starboard. This turns the ship 30 degrees to starboard with all of the same restrictions that apply to TURN TO PORT.



port or 6.1 EXPLANATION OF BOARDING

GRAPPLING. Boarding continues as long as at least one grappling line keeps the two ships together (see explanation of boarding screen). Shortly after all 6

*New feature in Apple 2.0 version.

grappling lines have been cut and no longer show on the screen, the game will transfer back to the sailing screen with one hour of time elapsed, or if playing the Boarding Only game, the game will be cut for every 12 rounds of swordfighting in which no one drops dead (while at least one of the swordfighters is behind his own grating). One grapple will also be cut whenever a swordfighter behind his own grating causes the other swordfighter to drop dead (see explanation of boarding screen). For example, if the ship 1

nations of letters 'D', 'E', 'F', 'G', and 'H'. by where your swordfighter is. Refer to gether. Whether or not you are fighting grappling lines holding the ships tomen to repel boarders and cut the defensively you have commanded your enemy can't escape. If you are fighting as many men on the enemy's deck as sive boarding then you are trying to get defensive. If you are engaged in often-OFFENSIVE VS DEFENSIVE. Each section 4.0, Boarding Screen, for a defensively or offensively is determined to this you are trying to tie the ships together with grappling lines, so the possible to take over his ship. In addition player is either on the offensive or

swordfighter will drop dead. dropping dead will occur whenever a to swordfighting amount to ten, a Whenever accumulated casualties due are killed and a figure will drop dead. Each time a sniper hits, ten enemy crew total of ten crew members are killed. DROPPING DEAD. The swordfighter

of a thrust, counter-thrust or back. The SWORDFIGHTING ROUNDS, Swordstandard (see section 2.5, Variables consists of a swordlighting movement ing, each sniper is allowed to fire. Page 3). After 15rounds of swordhightboarding casualfies is set to 1 times thrust 2 men, and the hack 6 men, if thrust, if it kills, kills 4 men, the counterfighting is played in rounds. A round

0 men against the counter-thrust. The fighter is advancing or retreating during movements is altered if your swordthrust beats the hack and kills 4 men. thrust kills 4 men against the thrust. kills 6 men. The counter-thrust kills The hack beats the counter-thrust and beats the thrust and kills 2 men. The CASUALTY RATES. The counter-thrust The number of men killed by these The hack kills 6 men against the hack

> retreating swordfighter (ship I swordtwice as many men if he is killed. A ship 2 swordfighter moving left) loses men if he is killed. many men, and loses only half as many fighter moving right) kills only half as fighter moving left or ship 2 sword-(ship 1 swordfighter moving right or the round. An advancing swordfighte

because you will see the loser's crew adjacent after any movement assume that the swordtighters are total decrease. All these examples EXAMPLES. These examples are given so you will understand how casualties to tell who won a particular round the end of each round. In fact, it is easy will also display the new crew total at computer does all of that for you and calculate these results yourself. The are calculated. You do not have to

stands still. Player 2 chooses to counterthrust and advances. Example 1: Player I chooses to hack and

6 (normal losses) $\times 2 = 12$ normal losses in a round in which he because Player 2 will suffer 2 times the Results: Player 2 will lose 12 men

and advances. Player 2 chooses to Example 2: Player 1 chooses to thrust

counter-thrust and retreats.

2 (normal losses) $\times 2 \times \frac{1}{2} = 2$ kill 1/2 as many men in a round in losses is divided by 2 because you only multiplied by 2 because you lose twice which you retreat. as many men when you advance and normal amount of losses (2 men) is first Results: Player 1 will lose 2 men. The Player 2 retreated so the number of lose a round, but in addition to this

advances. Player 2 chooses to hack and Results: Each player will lose 6 men. and stands still. stands still. Player 2 chooses to hack Example 4: Player 1 chooses to hack and

Example 3: Player 1 chooses to hack and

losses due to advancing). Player 2 loses Results: Player I loses 12 men (double

game through boarding, you must play BOARDING STRATEGY. To win the

(disengage) cartier.

6.2 BOARDING COMMANDS

each lose 4 men. The correct keys are: players choose to thrust, then they will

APPLE APPLE

MALLY W N

SHIP 1 (Violet/dark)

beats the hack and kills 4 men. If both the movement kills the enemy. The thrust

own deck) must be given right before command 'takes', Sniper commands (to swordlighter attacks. hack) must be given right before the movements (counter-thrust, thrust, and that sniper shoots. Swordfighter attack enemy on other deck, or enemy on make the sniper shoot at other snipers, It is necessary to time when you hit the key on this screen to make sure the the keyboard for inputting commands. The boarding phase always uses

SWORDFIGHTER MOVE RIGHT

use keys:

kill 6 men. To execute this command,

right to make him more defensive. The or move the ship 2 swordlighter to the keys to hit to cause this action are: the right to make him more offensive, Move the ship 1 swordfighter to

SHIP 1 (Violet/dark) F F F

SWORDFIGHTER MOVE LEFT

ship 2 swordfighter to the left to make him make him more detensive, or move the Move the ship I swordfighter to the left to more offensive. The keys to use are:

	5HIP 2 (Green/light)	5HIP 1 (Violet/dark)	
ı			
	Ŷ	D	Vbhrii Taldav
	<u>^</u>	DDD	att att with a trade

COUNTER-THRUST SWORDFIGHTER

choose to counter-thrust, then they will being killed. The counter-thrust beats the the most defensive of the sword actions. It thrust and kills 2 men. If both players results in the least number of enemy crew kill 0 men. Keys to use are: The counter-thrust is a short thrust and is

SHIP I (Violet/darl SHIP 2 (Green/ligh	
K) 1	APPLE
0	VbbTE
¢o ⊷	ATAIU

swordfighter. If you play a defensive an aggressive game. Your swordfighter game, you will lose less men during must advance to engage the other boarding, and you will end the boarding being killed than the counter-thrust when as the hack. It results in more enemy crew as the counter-thrust and not as offensive SWORDFIGHTER THRUST This sword movement is not as detensive

the most enemy crew. The hack beats the sword movements. If successful, it will kill counter-thrust and kills 6 men. If both players choose to hack, then they will each This is the most offensive of the three SWORDFIGHTER HACK SHIP 2 (Green/light)

SHIP 1 (Violet/dark) SHIP 2 (Green/light)

SNIPER AIM AND FIRE AT

enemy sniper is 25% of the normal hit snipers, the percentage chance to hit an ers. Due to the difficulty of hitting enemy the sniper's musket aim at the other snipat the other ship's snipers, For each sniper before the sniper fires. Then you will see Use this command to make the sniper aim OTHER SNIPERS you must hit the appropriate key right

SHIP 1 (Violet/dark) SHIP 2 (Green/light)		percentage. The keys to use
0	APPLE APPLE	to use
0	APPLE	are:
∞ →	ATAIU	
	2	

ENEMY ON OTHER DECK SNIPER AIM AND FIRE AT

the enemy crew on the enemy's ship. The This command will make the sniper tire at

	APPLE II & II+	APPLE lic	AVILV
SHIP I (Violet/dark)	2	2	23
SHIF 2 (Green/light)		1	20

SNIPER AIM AND FIRE AT ENDMY ON OWN DECK

is engaged in hand-to-hand combat. The only when there is a significant number or an enemy's crew member. It is much a man in one of the positions I through 10 while aimed at his own deck, he will kill on the ship decreases. If the sniper hits chance increases as the number of enemy is always a chance that your sniper will of enemy crew on your own deck, as there than on your own deck where the enemy easier to pick out a clear enemy target on (see boarding picture) whether he is yours miss and hil a man on his own side. This We recommend that you use this command the enemy's deck or rigging (other snipers)

SHIP 1 (Violet/dark) SHIP 2 (Green/light)	
<u> </u>	WILLIAM TALLIA
ω	APPLE
0 4	18715

keys to use for this command are:

6.3 SURRENDER

men, the game is a draw. below 120. If both crews drop below 120 crew members have boarded the ship. For as the other crew is greater than a fourth of one fourth of its original crew size as long total crew remaining is reduced below the first ship will lose if its crew drops example, if both crews start with 480 men. ils original size, or whenever 11 enemy A ship will surrender whenever its





6 P.M. before one ship first. If both ships lose, 6 P.M., whichever comes or if the time reaches ship wins or loses, or at the game ends if either

to board your ship during boarding and lose if 11 enemy crew members manage of their original size at the same instant crews of both ships go below a fourth below a fourth of its original size. If the broadside. Under these conditions it is to surrender; this will happen if your also win if your ship can accumulate can win, the game is a draw. You will broken and he has struck his colors. assumed that the enemy's morale has number of guns on the enemy ship's greater than 10 times the original score less the score of your opponent is enough points to torce the enemy ship win if you sink the enemy ship. You will the game will be a draw. You will also You will lose if your crew size goes

> 6.3), the victorious player will receive surrendering crew. points as if he had killed the entire renders during boarding (see section awarded for damaging enemy ships the game will be a draw. Points are boarding positions. If both ships sink, members occupying any of the first ten (see sections 7.1 to 7.4). If a ship suryou have no standing friendly crew

7.1 POINTS FOR DESTROYING SAILS AND MASTS

mast middle section, and 10 points for each mast top section, 5 points for each quariers, you will have earned 375 250 points for sail damage; if threeopponent's sails, you will have earned sails. If you knock out one-half of your knocking out all of your opponent's for knocking out masts are 5 points for points. Cumulative bonuses awarded There are 500 points possible for

> masts with one or more broadsides, you to destroy top mast sections, as well as damage. Players will find that it is easier will have earned 20 points for mast each mast boltom section. Thus if you knock out one of your opponent's the middle section of the rear mast.

7.2 POINTS FOR DESTROYING HULL

destroyed. Bonus points for hull points are as follows: awarded if 30 or more hull points are addition, non-cumulative bonuses are hull point that your opponent loses. In You will tain two points for each

150-179	120-149	90-119	60-89	30-59	THE PROPERTY STATES THE
800	400	200	100	30	POINTS AWARDED

enemy hull points, you will earn 132 regular For example, if you have destroyed 66 sink and you will win. ponent loses all of his hull points, he will 232 points for hull damage. If your oppoints, plus 100 bonus points, for a total of

7.3 POINTS FOR KILLING CREW

es are awarded as follows: point. In addition, non-cumulative bonusyou will accumulate one-half of a victory For each enemy crew member killed,

1000+	900-999	800-899	700-799	▶ 600-699	500-599	400-499	300-399	200-299	100-199	NUMBER OF CREW KILLED
1850	1450	1175	925	700	500	350	225	125	50	POINT'S AWARDE

to enemy crew losses. bonus points, for a total of 400 points due have carned 175 regular points plus 225 For example, if your opponent started with 1,000 men and now has only 650, you

DESTROYING GUNS

7.4 POINTS FOR

broadside are destroyed, as follows: il a large number of guns on an enemy addition, cumulative bonuses are available opponent's guns that you destroy. In You will earn 4 points for each of your

80-89	70-79	60-69	50-59	40-49	30-39	20-29	10-19	NUMBER OF GUNS DESTROYED ON ONE BROADSIDE
1425	1175	925	675	425	300	200	100	SOLVEN SENIOR

opponent's guns on his port broadside, damage points gained. bonus points, for a total of 284 gun you will gain 64 regular points plus 200 For example, if you destroy 21 of your

7.5 BONUS POINTS FOR THE VICTOR

(720 - 150) points. 8:30:00 and thus receives a bonus of 570 clapsed. Example: Player 1 sinks Player 2 at bonus equal to: 720 - number of minutes The victorious player will receive a

7.6 FINAL VICTORY POINT DETERMINATION

game against a human opponent) the final player is equal to: number of points awarded to the victorious In the tactical game (and in the arcade

POINTS OF VICTOR + TIME BONUS - POINTS OF LOSER

(i.e., it you manage to sink three ships, you the damage done to all three ships). ships will be added together at the end subtraction of loser's points). Furtherplayer is equal to the points accumulated number of points awarded to the victorious more, the points scored against multiple by the victorious ship (no time bonus of will be given the points you received for In the solitaire arcade game the final

number of points awarded is calculated in however, no time bonus is awarded: the same manner as in the tactical game; In the "boarding only" game, the final

- POINTS OF LOSER POINTS OF VICTOR

GUNS

Mistorical All data specified pages 1 cases you

historical ships of the era.
All data given can be specified on variables pages 1, 2 and 3 (in some cases you will be forced

section for some historical battles. single ship battles. See the end of this between frigates were the most common called frigates. In this rating system, carships of the line and fifth rates were rate 64-89 guns, fourth rate 50-60 guns are not specified because they are always British number of guns is given, battles ships of other countries, the equivalent guns than they were rated for. For the tion. Also, ships usually carried more guns. Rates one through four were called fifth rate 32-44 guns, sixth rate 20-30 100+ guns, second rate 90-98 guns, third were divided into categories known as to round off values). Boarding casualties ronades were not taken into considerarates. First rate ships were ships with 1.00 × standard. Ships in British service

8.1 BRITISH SHIPS

set the loading time for both players repair. British crews were also good at generally kept in good condition and waves." Another reason for their supea whole were superior and one of the average in quality as the figures below fairly equal other nation's, but for game purposes, reflect. The British crews and officers as in most cases you will probably want to fire was almost twice as fast as any fighting machines. The British rate of keeping the ships working as excellent repairing damage during battle riority was that British ships were main reasons why "Brittania ruled the British built ships were really

Historical notes: British crews should be given a rate of fire that is 50–75% of the rate of fire given for the ship. British crews should not be allowed to fire chain shot.

							١
2:30					3:00		
4:30					4:30		
2.4 km					2.4km		
1.00							
110					115		
750					875		
15%					15%		
		24			28 🍗	HIXIS	
2 6lb 11 9lb	1 24lbC	3 18lbC	12 91Ь	2 6lb	3 24IbC	RATE (FRIGA	
	4:30 2.4kn 1.00 110 750 15%	4:30 2.4kn 1.00 115 875 15% . 28 • 24 4:30 2.4kn 1.00 110 750 15%	4:30 2.4kn 1.00 115 875 15% ' 28 • 24 4:30 2.4kn 1.00 110 750 15%				

98

5 18160

20 12lb 15 18lb

14 32Ib

SECOND RATE

14 24lb 15 42lb 100+

5 241b0 21 12lb FIRST RATE

NUM TYPE

FIRE TURN SPEED SHOT HULL CREW SNIPERS

GUNS

	20				24	2			28 🖜	1	HIXIS		0	33				36				44	THE INTE	TITOTIA V			50			60	1000	Tail Ca				64				74			80		THIRD RATE	z
10 916	4 121bC	11 9lb	2 6lb	1 24lbC	3 18IbC		12 91Ь	2 6lb	3 24IbC		SIXTH RATE (FRIGATES)	13 12lb		3 24160	13 18lb	1 12lb	4 916	4 32lbC	TO TOLO	11 1215	3 6lb	4 18lbC	FIFTH KATE (FRIGATES)	THE PERSON	12 1215	3 24lbC	3 121bC	14 241b	13 1216		The second of the		13 24lb	13 1815	91b	5 18lbC	14 32lb	14 1815	916 6		13 3216		13 olly		RATE	NUM TYPE
	1:30				1:30				1:30		ATES)		7.10	1:40				1:50				1:50	(CHI)				2:10			2:10	200	CATEC				2:10				2:30			3:30	2		FIRE
	1:10				1:20	2			1:20				100	1-20				1:50				2:20					2:20			2:40						3:00				3:30			3:30	9.00		NAUT
	3.4 km				3.4km	1			3.4kn				0.00	2464				3.1 km				2.9kn					2.9kn			2,9kn						2.6kn				2.6kn			2.0813	0		SPEED
	1.00				1.00				1.00)			1.00	3				1.00				1,00					1.00			1.00						1.00				1.00			1.00	200		SHOT
	30				35	1			35				40	40				45				55					60			65	i.					65				00 00			00	n n		HULL
	200				200	9			200	1				الم د ب				300				300					420			480						650				650			000	250		CREW
	8%				8%	9			8%				0 0	% o c				00 %				8%					15%			15%						15%				15%			%CT	200		SNIPER%

gualities than the Brilish but were often in poor condition. The crews were definitely on the whole inferior to the British with the rate of fire being about twice as slow as the British. The figures below reflect the qualities of the ships and the amount of crew the French put on each ship. If you want to compensate for the quality of French crews, increase the rate of fire considerably up to twice, increase the turning speeds about 10%,

and lower the shot damage to .80. The reason the shot damage is set at 1.10 is to reflect the fact that the French shot was actually heavier than the equivalent sized British shot. In the game you probably will want to play with crews much better than the French actually were. Feel free to do so.

Historical notes: French crews should be given a rate of fire that is 100–150% of

increase turning speed by 10%.

the rate of fire given for the ship.

	28		32			36			38			40	FRIC			74				80				110				120	
1 616	3 42lbC	3 6lb 13 12lb	2 42lbC	13 121Ь	5 6lb	2 42lbC	13 1816	6 8lb	2 42lbC	14 18lb	6 8lb	2 42lbC	FRIGATES	14 36lb	15 24lb	2 42lbC	15 36lb	16 24lb	9 12lb	3 42IbC	15 36lb	16 24lb	16 12lb	418 01	16 36lb	17 24Ib	17 1216	14 81bC	NUM TYPE
	1:30		1:40			1:40			1:50			1:50				2:50				2:50				2:50				2:50	EME
	1:20		1:30			1:40			1:40			1:50				3:10				3:30				4:40				5:20	TURN
	3.4kn		3.4 kn			3.1kn			3.1kn			3.1km				2.6km				2.6km				2.4km				2.3km	SPEED
	1.10		1.10			1.10			1.10			1.10				1.10				1.10				1.10				1.10	TOHS
	LA Un		*			AL UI			#A			50				ÖC Cn				95				125				140	HULL
	200		275			300			320			330				690				840				1037				1098	CREW
	8%		8%			8%			8%			8%				15%				15%				30%				30%	SNIPERW

8.3 AMERICAN SHIPS

Without question the Americans had the best quality crews and ships of any nation of the period. They just didn't have many of them. The figures below reflect typical American ships. You will note that the frigates are far superior to those of any other nation. Americans employed a higher percentage of carronades on many ships than other nations. There were four 74-gunners made at the end of the War of 1812 that never saw action and were not

shot damage is set at .90 because American shot was inferior (some would just break apart in flight), and generally weighed less than the rate of the guns that fired them. If however you want to take into account the superior accuracy of most American crews you might want to raise shot damage to 1.3 or higher to reflect the greater number of hits.

Historical notes: American crews should be given a rate of fire that is 50-75% of the rate of fire given for the ship.

as good as other American ships. The

			18	20	24	T.2	28	ī.	28	T.2	32	1.1	32		36		300	T.2	44	LI	44	FRIG			74	
1	ac of	8 24lbC	2 12lb	10 916	13 1216	12 1216	3 6Ib	12 1215	2 6lb	13 1216	6 916	20 32lbC	3 18lb	13 18lb	10 32lbC	14 18lb	10 32IbC	15 2415	10 421bC	15 24lb	11 32lbC	FRIGATES	15 32lb	16 32lb	12 32lbC	GUNS NUM TYPE
	000		1:40	1:30	1:20		1:20		1:20		1:20		1:10		1:30		1:30		1:50		1:50				2:10	FIRE
	•		0:50	0:50	1:00		1:10		1:10		1/20		1:30		1:40		1:40		1:50		1:50				3:00	TURN
XX			3.6km	3.6km	3.4km		3.4km		3.4km		3.4kn		3.4kn		3.6km		3.6km		3.4kn		3.4kn				2.9kn	SPEED
7			0.90	0.90	0.90		0.90		0.90		0.90		0.90		0.90		0.90		0.90		0.90				0.90	SHOT
			30	30	40		40		40		50		51		60		65		70		80				100	нипп
	3		150	200	200		230		220		328		328		340		340		470		470				800	CREW
é	8		8%	8%	8%		8%		8%		8%		8%		8%		8%		15%		15%				30%	SNIPER%

2

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These are included mainly to give you a selection of different ships. The Spanish navy was in terrible condition and corrupt at the highest levels. In addition to that they spent most of their time in port. The crews as a whole were of a very poor quality, definitely inferior

to the French. The figures below reflect ship qualities and not crew qualities.

Historical notes: Spanish crews should be given a rate of fire that is 125–175% of the rate of fire given for the ship. Increase turning speed by 10–20%.

	20	34	40	FRIC		64	T.2	7		H	74		T.2	80		=	80			110				136	
58		4 81b 13 12lb	6 8lb 14 18lb	FRIGATES	13 18lb 13 24lb		15 18lb		14 24lb 15 24lb		4 24lbC	15 36lb		9 815	15 3616		12 42IbC		16 1215	9 816	15 32lb	16 1815	16 12lb	18 8lb	NUM TYPE
	1:30	1:40	1:50			2:10	01:7	3.15			2:10			2:50			2:50			2:50				2:50	FIRE
No.	0:50	1:20	1:40			2:40	3:00	3.05			3:10			3:20			4:00			4:40				5:20	TURN
	3.6kn	3.4kn	3.1kn			2.9kn	2.6Kn	3 (1)			2.6km			2.6kn			2.4kn			2.4kn				2.3km	daads
	1.00	1.00	1.00			1.00	T.00	200			1.00			1.00			1.00			1.00				1,00	TOHS
	30	35	40			65	/5	1			75			80		į	95			110				130	HULL
8	130	240	281			474	545	1			623			656		9	955			00 00 00				1005	CREW
38	8%	8%	8%			8%	%				60		Č	00		0	15%			15%				30%	SNIPER%
			-		·																				-

8.5 SHIPS STORED ON THE GAME DISK*

			* *	
OPTION A SYBLLE (BRITISH) 7 321bC 3 91b 14 181b vs. FORTE (FRENCH) 4 321bC 7 81b 15 241b	LEVEL 3. CLEOPATRA (BRITISH) 5 24lbC 2:00 16 12lb vs. VILLE DE MILAN (FRENCH) 10 8lbC 1:30	LEVEL 2. CONSTELLATION (AMERIC 10 24lbC 1:50 14 18lb vs. LA VENGEANCE (FRENCH) 4 32lbC 1:50 16 18lb 7 12lb	LEVEL I. VICTORY (BRITISH) 1 68fbC 2:20 3: 15 42lb 21 12lb vs. CONSTITUTION (AMERICAN) 11 32lbC 1:30 1: 15 24lb	NUM TYPE
1:30	ISH) 2:00 2:RENCH	(AMERICAN) 1:50 2:0 FRENCH) 1:50 2:1	2:20 MERIC./	FIRE
1:40	1:40	2:00 2:00 2:10	3:20 1:50	TURN
о Н Н	3.6 3.4	3.1	3.4 2.6	SPEED
1.10	1.00	1.10	1.00	TOHE
60 45	50	tu þ	70	HULL
370	368	320	836	CREW
15%	8% 15% fplus 2.00 × standard board- ing casualities)	15%	30% (phus 200 × standard board- ing cravallies) 15% (plus 200 × standard board- ing canuables)	SNIPER%

^{*}New feature in Apple 2.0 version.

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HULL CREW SNIPER% 35 220 8% 360 320 15% 50 420 15% 50 270 8% 50 270 8% 50 320 8%	TUKN SPEED SHOT HULL 1:20 3.4kn .80 35 1:20 3.4kn 1.20 35 1:20 3.4kn 0.90 60 1:30 3.8kn 0.90 60 1:50 3.4kn 1.10 50 2:10 3.1kn 0.90 70 2:10 3.1kn 0.90 70 1:30 3.6kn 1.00 50	3.4kn 3.4kn 3.8kn 3.6kn 3.1kn 3.6kn 3.1kn	OPTION B AMBUSCADE (BRITISH) 4 241bC 1:30 1:20 16 121b vs. BARONNAISE (FRENCH) 1 421bC 1:30 1:20 3 61b 12 81b OPTION C CONSTELLATION (AMERICAN) 38 5 121b 1:20 1:30 14 241b vs. L'INSURGENTE (FRENCH) 12 121b 12 121b 12 121b 12 121b 12 121b 13 321bC 2:20 1:40 A4 11 321bC 1:30 2:10 3 61b 12 181b Vs. OPTION E UNITED STATES (AMERICAN) 44 10 421bC 1:30 2:10 15 241b vs. MACEDONIAN (BRITISH) 44 4 321bC 1:40 1:30 2 121b 13 181b
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-						
VS. CLEOPATRE (FRENCH) 36	OPTION II NYMPHE (BRITISH) 36 4 321bC 4 91b 1 121b 13 181b	vs. SERAPIS (BRITISH) 44 4 615 10 1215 10 1815	OPTION G BONHOMME RICHARD (AMERICAN) 42 4 9lb 1:30 2:20 1 14 12lb 3 18lb		OPTION F MARS (BRITISH) 74 5 18lbC 9 9lb 14 18lb 14 32lb	NUM TYPE
2:00	1:30	1:30	ARD (A 1:30	3:00	1:50	FIRE
1:40	1:50	2:00	MERICA 2:20	3:20	3:30	TURN
3.1kn	3.1kn	2.9kn	2.4km	2.6kn	2.6kn	SPEED
1.10	1.00	1.00	1.10	1.10	1.00	SHOT
40	40	60	50	90	90	HULL
320	220	270	420	670	620	свеж
% %	8%	8%	15%	15%	15%	SNIPER%



ARCADE GAME Broadsides allows for two types of play, 'arcade' and 'tactical', Fewer commands are available in the arcade game.

BATTLE SAIL Battle sail was the normal sail and rigging configuration used by a ship in action. Many of the sails were 'clewed up,' giving the ship less speed, but causing the masts and sails to be less vulncrable to enemy fire.

BOARDING A boarding action occurred when one ship was able to grapple with the other ship, to allow the crew members of the two ships to engage in hand-to-hand combat.

BROADSIDE A broadside occurred when all the cannons on one side (either port or starboard) were fired simultaneously at a target.

CARRONADE A carronade was a short-barrelled, large caliber gun designed for short ranges. It was invented in 1779 by the Carron Company in Scotland.

FULL SAIL Full sail allowed ships to increase their speed by setting more sails. This increased strain on masts and rigging, and made them more vulnerable to enemy fire.

GRAPPLES Grapples were used to keep the two ships together so boarding could continue. In the game, you can break the grapples on your ship by moving your swordfighter back behind

the bulwark (see boarding screen picture and explanation) on your ship.

NATE One nautical mile per hour. A nautical mile is approximately 6080 feet.

OPTION There are six options shown on the options page: game controller, number of players, arcade or tactical type of game, regular game or boarding screen only, level of play, and change variables.

PORT The left side of the ship as you stand on the ship facing forward.

SNIPER Snipers used muskets to shoot at the enemy and were positioned in the rigging of the ships.

STARBOARD The right side of your ship as you face forward on the ship.

SWORNEIGHTER Represents hand-

SWORDFIGHTER Represents handto-hand lighting with swords during
boarding actions.

TACTICAL GAME There are two
types of games that can be played:

arcade and tactical. The tactical game

has more command options

VARIABILE The game variables specify the characteristics of each ship. These can be altered one by one on the variables pages. Some of the variables are crew size, strength of hull, and type and number of cannons. The game is designed to enable you to change any or all of the characterisitics of each ship before each game begins.

Credits

Game Design & Programming
Wayno Garris

Game Development Joel Billings

Art & Graphic Design Louis Hsu Saekow, Don Woo and Kathryn Lcc

Typesetting
Abra Type

Printing A&a Printers and Lithographers



If you have any questions or problems regarding the program or game, please send a self-addressed, stamped envelope with your question to: STRATEGIC SIMULATIONS INC. 883 Stlerthr Road, Bldg. A-200, Mountain View, CA 94043-1983. Or call our Hotline Number: (415) 964-1200 every weekday, 9 to 5 (P.S.T.)